## WHAT IS CLAIMED IS:

1 2 2

A compound having the formula

in which:

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R<sup>1</sup> is a member selected from the group consisting of —OCH<sub>3</sub>, —SCH<sub>3</sub>, —N(CH<sub>3</sub>), —NHCH<sub>3</sub>, —CHO, —COCH<sub>3</sub> and —CHOHCH<sub>3</sub>;

R<sup>2</sup> is a member selected from the group consisting of halogen, alkyl, acyl, hydroxy, alkoxy, acyloxy, alkylcarbonate, cypionyloxy, S-alkyl and S-acyl;

R<sup>3</sup> is a member selected from the group consisting of alkyl, hydroxy, alkoxy and acyloxy;

R<sup>4</sup> is a member selected from the group consisting of hydrogen and alkyl; and

X is a member selected from the group consisting of  $=_0$  and  $=_{N-0}R^5$ , wherein  $R^5$  is a member selected from the group consisting of hydrogen and alkyl.

- 2. A compound in accordance with claim 1 in which:  $R^1$  is  $--N(CH_3)_2$ .

1 2	4. A compound in accordance with claim 1 in which $R^2$ is alkoxy.
1 2	5. A compound in accordance with claim 1 in which R <sup>3</sup> is acyloxy.
1 2	6. A compound in accordance with claim 1 in which $R^4$ is alkyl.
1 2	7. A compound in accordance with claim 1 in which $X$ is $=0$ .
1	9. A compound in accordance with claim 1 in which R <sup>1</sup> is -N(CH <sub>3</sub> ) <sub>2</sub> ; R <sup>2</sup> is halogen; R <sup>3</sup> is acyloxy; R <sup>4</sup> is alkyl; and
6	X  is  = 0
1 2	10. A compound in accordance with claim 9 in which $\mathbb{R}^2$ is F.
1 2	
1 2	12. A compound in accordance with claim 9 in which $R^2$ is Cl.

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13. A compound in accordance with claim 9 in which:

R<sup>4</sup> is methyl.

14. A compound in accordance with claim 1 in which:

R<sup>1</sup> is —N(CH<sub>3</sub>)<sub>2</sub>;

R<sup>2</sup> is alkyl;

R<sup>3</sup> is acyloxy;

R<sup>4</sup> is alkyl; and

X is =0.

15. A compound in accordance with claim 1 in which:

 $R^1$  is  $-N(CH_3)_2$ ;

R<sup>2</sup> is alkoxy;

R³ is acyloxy;

R4 is alkyl; and

X is = 0.

- 16. A compound in accordance with claim 15 in which:  $\mathbb{R}^2$  is methoxy.
- 17. A compound in accordance with claim 15 in which:  $R^2$  is ethoxy.
- 18. A compound in accordance with claim 15 in which:  $R^3$  is acetoxy.
  - 19. A compound in accordance with claim 1 in which:

 $R^1$  is  $-N(CH_3)_2$ ;

R<sup>2</sup> is hydroxy;

R³ is acyloxy;

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5
                           R4 is alkyl; and
6
                           X is
                                   =0 ·
                                20. A compound in accordance with claim 1 in which:
1
                           R^{1} is --N(CH_{3})_{2};
2
                           R<sup>2</sup> and R<sup>3</sup> are both acyloxy;
3
                           R4 is alkyl; and
5
                           X is
21. A compound in accordance with claim 20 in which:
                           R^2 and R^3 are both acetoxy.
                          ~ 22. A compound in accordance with claim 1 in which:
                           R^1 is --N(CH_3)_2;
                           R<sup>2</sup> is S-acyl;
                           R<sup>3</sup> is a member selected from the group consisting of hydroxy and
                                   acyloxy;
                           R4 is alkyl; and
                           X is
                               23. A compound in accordance with claim 1 in which:
1
                           R^1 is --N(CH_3)_2;
2
3
                           R<sup>2</sup> is cypionyloxy;
                           R<sup>3</sup> is acetoxy;
5
                           R4 is alkyl; and
6
                           X is
1
                               24. A compound in accordance with claim 1 in which:
2
                           R^{i} is --N(CH_3)_2;
3
                           R<sup>2</sup> is methoxy;
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4	R <sup>3</sup> is acetoxy;		
5	R <sup>4</sup> is alkyl; and		
6	$X \text{ is } =_{N-0R}^{5}$ .		
1	25. A compound in accordance with claim 1 in which:		
2	$R^1$ is $N(CH_3)_2$ ;		
3	$R^2$ and $R^3$ are both acetoxy;		
4	R <sup>4</sup> is alkyl; and		
5	$X \text{ is } =_{N-OR}^5$		
15	26. A pharmaceutical composition comprising an effective amount of		
200 HUU 2 3 TH 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	a compound of claim 1 and a pharmaceutically acceptable excipient.		
	27. A method of producing an antiprogestational effect in a patient,		
2 <sup>1</sup>	said method comprising administering to said patient an effective amount of a compound of claim 1.		
	Of Clauff 1.		
1 <del>=</del>	28. A method of inducing menses in a patient, said method		
20	comprising administering to said patient an effective amount of a compound of claim 1.		
1	29. A method of treating endometriosis, said method comprising		
2	administering to said patient an effective amount of a compound of claim 1.		
1 .	30. A method of treating dysmenorrhea, said method comprising		
2	administering to said patient an effective amount of a compound of claim 1.		
1	11. A method of treating endocrine hormone-dependent tumors, said		
2	method comprising administering to said patient an effective amount of a compound of		
3	claim 1.		

N 32.	. A method of treating uterine	fibroids in a patient, said method
comprising administer	ring to said patient an effective	e amount of a compound of claim 1.

- 33. A method of inhibiting uterine endometrial proliferation in a patient, said method comprising administering to said patient an effective amount of a compound of claim 1.
- 14. A method of inducing labor, said method comprising administering to a patient an effective amount of a compound of claim 1.
- 35. A method of contraception, said method comprising administering to a patient an effective amount of a compound of claim 1.
- 36. A method of postcoital contraception, said method comprising administering to a patient an effective amount of a compound of claim 1.